



Winston H. Hickox  
Secretary for  
Environmental  
Protection

# California Regional Water Quality Control Board

## Santa Ana Region

Internet Address: <http://www.swrcb.ca.gov/~rwqcb8>  
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Gray Davis  
Governor

April 5, 1999

Mr. Wayne D. Lee  
Assistant Chief of Staff  
Environment and Safety  
Marine Corps Air Station El Toro  
P. O. Box 95001  
Santa Ana CA 92709-5001

**SUBJECT: CLOSURE OF UNDERGROUND STORAGE TANK (UST) CASE  
LAW CENTER, UST 54C  
BUILDING 54, MARINE CORPS AIR STATION, EL TORO  
CASE NO. 083003432T**

Dear Mr. Lee:

This letter confirms the completion of the site investigation and remedial action which were conducted to mitigate the releases from the underground storage tank formerly located at the above described location. Enclosed is the Case Closure Summary for the referenced site for your records.

A concrete UST was removed and discolored soil was observed in the excavation and along the piping trench to the building. Soil samples were collected for analysis. Some of the contaminated soil was removed from the excavation. A leachability test was conducted on the soil sample with the highest total petroleum hydrocarbon (TPH) concentration. The analytical results of the leachate was 8.2 mg/l of TPH - diesel.

After backfilling the excavation, verification soil borings were drilled to depths of between 39.5 and 69.5 feet. Soil samples were collected for analysis. Groundwater was not detected in the soil borings. The highest contaminant concentrations were detected in soil samples collected at 14.5 feet below the surface. The TPH contaminated soil appears to extend to approximately 59.5 feet below grade. A leachability test was conducted on the soil samples collected at 14.5 and 49.5 feet. The analytical results of the leachate was 3 and 2.5 mg/l respectively. The remaining contaminant concentrations do not appear to be a threat to the groundwater.

Based on the information provided in the April 30, 1998 Tank Removal and Site Closure Report for UST 54C, and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground storage tank release is required.

*California Environmental Protection Agency*

Mr. Lee

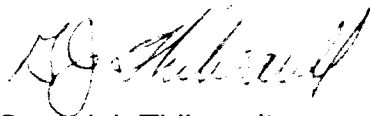
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April 5, 1999

This notice is issued pursuant to a regulation contained in Title 23, California Code of Regulations, Division 3, Chapter 16, Section 2721 (e).

Please telephone Patricia Hannon at (909) 782-4498 if you have any questions regarding this matter.

Sincerely,



Gerard J. Thibeault  
Executive Officer

Attachement: Case Closure Summary

cc w/ attachment: Dept. of Toxic Substances Control - Tayseer Mahmoud  
Kutak Rock, Attorneys - Gregory F. Hurley  
Marine Corps Air Station El Toro - Capt. Jeff Matthews  
Naval Facility Engineering Command, SWDIV - Lynn Homecker  
Orange County Hall of Administration - Courtney Wiercioch  
Orange County Health Care Agency - Arghavan Rashidi-Fard  
State Water Resources Control Board - John Adams  
U. S. EPA, Region IX - Glenn Kistner

# CASE CLOSURE SUMMARY

## Leaking Underground Fuel Tank Program

### I. Agency Information

DATE: April 5, 1999

AGENCY NAME	California Regional Water Quality Control Board - Santa Ana Region	STAFF	Patricia Hannon
ADDRESS	3737 Main St. Suite 500	TITLE	Associate Engineering Geologist
CITY/STATE/ ZIP	Riverside CA 92501-3339	PHONE	(909) 782-4498, main # 782-4130

### II. Case Information

SITE NAME	Law Center, UST 54C			
LOCATION	Building 54, Marine Corps Air Station, El Toro			
REGIONAL BOARD CASE #	083003432T	LOCAL AGENCY CASE #		NA
RESPONSIBLE PARTIES		ADDRESS	PHONE NUMBER	
Marine Corps Air Station El Toro		P. O. Box 95001		
contact: Wayne D. Lee		Santa Ana, CA 92709-5001		
TANK NO.	SIZE IN GALLONS	CONTENTS	CLOSED IN PLACE/ REMOVED	DATE
54C	1400	diesel	removed	Nov. 21, 1996

### III. Release and Site Characterization Information

MONITORING WELLS INSTALLED?	no	NUMBER		PROPER SCREEN INTERVAL?	
DEEPEST GW DEPTH	NA	SHALLOWEST GW DEPTH	154 ft. (well 18_BGMW12 approx. 290 ft. NNW)		
GROUNDWATER, MOST SENSITIVE CURRENT USE:		municipal	GW FLOW DIRECTION	north northwest	
DRINKING WATER WELL(S) AFFECTED?	no	AQUIFER NAME			Irvine Pressure
IS SURFACE WATER AFFECTED?	no	NEAREST/AFFECTED SW NAME			
OFF-SITE BENEFICIAL USE IMPACTS (ADDRESSES/LOCATIONS):				none	
REPORT(S) ON FILE?	yes	WHERE IS/ARE REPORT(S) FILED?		R.W.Q.C.B. - Santa Ana Region	
TREATMENT AND DISPOSAL OF AFFECTED MATERIAL					
MATERIAL	AMOUNT	ACTION (TREATMENT, DISPOSAL)/ DESTINATION			DATE
TANK/PIPING	1 concrete UST and 97 feet of pipe	concrete pieces decontaminated and reused			Nov. 21, 1996
FREE PRODUCT	none				
SOIL	53 yd³	treated at the Station's bioremediation facility			November 1996
GROUNDWATER	none				

### III. Release and Site Characterization Information (Continued)

Maximum Document Contaminant Concentration - Before and After Cleanup				
CONTAMINANT	SOIL (mg/kg)		WATER (mg/L)	
	INITIAL	FINAL	INITIAL	CURRENT
BENZENE	0.746	ND	NA	NA
TOLUENE	0.746	1.8 (14.5 ft.) 0.82 (29.5 ft.)	NA	NA
ETHYLBENZENE	0.746	4.6 (14.5 ft.) 0.25 (49.5 ft.)	NA	NA
XYLENE	2.24	14.6 (14.5 ft.) 0.54 (49.5 ft.)	NA	NA
MTBE	NA	NA	NA	NA
TPH - gasoline	18000	1200 (14.5 ft.) 380 (49.5 ft.)	NA	NA
TPH - diesel	37000	30,000 (15 ft.) 6100 (49.5 ft.)	NA	NA
TPH - motor oil	1100	NA	NA	NA
TPH (418.1)	8000	NA	NA	NA

**COMMENTS REGARDING INVESTIGATION AND REMEDIATION**

A concrete UST was removed and discolored soil was observed in the excavation and along the piping trench to the building. Soil samples were collected for analysis. Some of the contaminated soil was removed from the excavation. A leachability test was conducted on the soil sample with the highest TPH concentration. The analytical results of the leachate was 8.2 mg/kg of TPH - diesel.

After backfilling the excavation verification soil borings were drilled to depths of between 39.5 and 69.5 feet. Soil samples were collected for analysis. Groundwater was not detected in the soil borings. The highest contaminant concentrations were detected in soil samples collected at 14.5 feet below the surface. The TPH contamination appears to extend to 59.5 ft. below grade. A leachability test was conducted on the soil samples from 14.5 and 49.5 feet. The analytical results of the leachate was 3 and 2.5 mg/l respectively. The remaining contaminant concentrations do not appear to be a threat to the groundwater.

Based on the information provided in the April 30, 1998 Tank Removal and Site Closure Report for UST 54C, this site is recommended for closure.

### IV. Closure

DOES COMPLETED CORRECTIVE ACTION PROTECT <i>EXISTING</i> BENEFICIAL USES PER REGIONAL BOARD BASIN PLAN?				yes	
DOES COMPLETED CORRECTIVE ACTION PROTECT <i>POTENTIAL</i> BENEFICIAL USES PER THE REGIONAL BOARD BASIN PLAN?				yes	
MONITORING WELLS DECOMMISSIONED	NA	NUMBER DECOMMISSIONED		NUMBER RETAINED	
LIST ENFORCEMENT ACTIONS TAKEN		none			
LIST ENFORCEMENT ACTIONS RESCINDED		none			

### V. Regional Board Representative Data

STAFF	Patricia Hannon	TITLE	Associate Engineering Geologist
SIGNATURE	<i>Patricia Hannon</i>	DATE	4/5/99
SUPERVISOR	Michael Adackapara	TITLE	Senior WRC Engineer
SIGNATURE	<i>Michael Adackapara</i>	DATE	4/5/99